	<ul> <li>Electronic spreadsheet software is used to produce professional</li> </ul>
	reports, perform simple business or personal calculations, perform
Essential	financial or scientific calculations or assist with database
Understandings	management.
	<ul> <li>Charts can be produced from spreadsheet software.</li> </ul>
	What is a spreadsheet?
	What are the basic parts of a spreadsheet?
Essential	<ul><li>What is a workbook</li></ul>
Questions	What is a formula?
	<ul> <li>What are the mathematical operators used in Excel.</li> </ul>
	How does Excel perform calculations?
	How do you create a chart?
	<ul> <li>A spreadsheet is a software program that enables one to perform</li> </ul>
	various calculations.
	<ul> <li>The parts of a spreadsheet view include: title bar, menu bar,</li> </ul>
	standard toolbar, formatting toolbar, name box, formula bar,
	column headings, row headings, active cell, status box, scroll bars,
	sheet tabs, horizontal scroll bar, cell and vertical scroll bar, cell
	reference, and scroll.
	<ul> <li>A workbook is an excel file with one or more worksheets.</li> </ul>
Essential	<ul> <li>A formula is an instruction Excel uses to calculate a number. For</li> </ul>
Knowledge	example: =sum(b4:j4)
_	<ul> <li>Mathematical operators are symbols used in mathematical</li> </ul>
	operations: + for addition, - for subtraction, * for multiplication, / for
	division, and ^ for exponentiation.
	<ul> <li>The order of mathematical operations is the order in which Excel</li> </ul>
	performs the calculations specified in a formula.
	<ul> <li>A chart presents Excel data in graphic format, allowing one to</li> </ul>
	compare and contrast data.
	■ To create a chart:
	o select data
	o click insert tab
	<ul> <li>click arrow button for the chart type</li> </ul>
	<ul> <li>select chart subtype.</li> </ul>

Vocabulary	<ul> <li>Terms:         <ul> <li>value, numeric label, label prefix, series, standard column width, formula, mathematical operators, order of mathematical operations, range, contiguous range, noncontiguous range, format, theme, font, fill, cell styles, font size, number format, accounting format, percent format, comma format, currency format, copy, paste, clipboard, fill handle, format painter, relative cell reference, absolute cell reference, print, grouping, active sheet tab, functions, function name, argument, nest, formula auto complete, auto calculate, excel table, structured references, comment, criteria, chart, embedded chart, chart sheet, plot, data</li> </ul> </li> </ul>
Essential Skills	series, legend, x-axis, y-axis, categories  Demonstrate keyboarding speed and accuracy on straight copy. Demonstrate knowledge of the basic parts of a spreadsheet. Create and manipulate the data of a spreadsheet. Use spreadsheets. Apply formulas in spreadsheets. Create a chart.
Related Maine Learning Results	Mathematics B. Data Measurement and Approximation B1.Students understand the relationship between precision and accuracy.  a. Express answers to a reasonable degree of precision in the context of a given problem.  b. Represent an approximate measurement using appropriate numbers of significant figures.  c. Know that most measurements are approximations and recognize the advantage of using the mean of repeated measurements.  D. Algebra Symbols and Expressions D1.Students understand and use polynomials and expressions with rational exponents.  a. Simplify expressions including those with rational exponents.  b. Add, subtract, and multiply polynomials.  c. Factor the common term out of polynomial expressions.  d. Divide polynomials by (ax + b).

	Career and Education Development
Related Maine Learning Results	Career and Education Development B. Learning About and Exploring Education, Career, and Life Roles B. Learning About and Exploring Education, Career, and Life Roles B2.Skills for Individual/Personal Success in the 21st Century Students evaluate strategies to improve skills that lead to lifelong learning and success in the classroom, and the achievement of schoolwork, work and career, and personal life goals. a. Literacy skills b. Numeracy c. Critical thinking skills d. Information and communication technology (ICT) literacy e. Interpersonal skills f. Other academic skills and knowledge B3.Education and Career Information Students use previously acquired knowledge and skills to evaluate and utilize a variety of resources to articulate a plan and make decisions for post-secondary education, training, and career choices. C. Learning to Make Decisions, Plan and Create Opportunities, and Make Meaningful Contributions C1.The Planning Process Students use the planning process to make school-to-school and school-to-work decisions. a. Self-knowledge b. Looking for and creating personal career options c. Decision-making skills C2.Decision-Making Students determine and apply effective decision-making strategies for accomplishing short-term and long-term goals related to school-to-school and school-to-work decisions. C3.Influences on Decision-Making Students examine sources of information that influence their career and education decision- making. C4.Societal Needs and Changes that Influence Workplace Success Students analyze and evaluate strategies for addressing diverse and changing societal and global economic needs that influence personal decision- making for workplace success.
Sample	Create a new workbook from data given.
Lessons	Create a new workbook from data given.     Create a pie chart from above assignment.
	- Greate a pie Giart Irom above assignment.
And	
Activities	

Sample	Observation
Classroom	■ Class work
Assessment	■ Homework
Methods	■ Tests
	■ Quizzes
	■ Publications:
Sample	<ul> <li>Keyboarding and Information Processing – South-Western</li> </ul>
Resources	Educational Publishing
	Other Resources:
	<ul> <li>Teacher made materials</li> </ul>